

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robin Hynton Examiner #: 72454 Date: 1/30/03  
 Art Unit: 3727 Phone Number: 308 1208 Serial Number: 09/965973  
 Mail Box and Bldg/Room Location: CP2-9031 Results Format Preferred (circle): PAPER DISK E-MAIL  
SPE

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Leak proof closure apparatus  
 Inventors (please provide full names): Mark Freeman & Timothy Stringer

Earliest Priority Filing Date: 4/22/99

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Leak proof

A closure and cup for a beverage.

Separate or as one is ok

1) The closure has a recessed channel and when placed on the cup, forms a outlet passage for fluid. The outlet passage has a fluid entrance and a fluid exit.

2) The cup has the recessed channel (not shown in the figures).

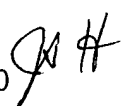
3) Both the cup and the closure have cooperating recessed channels (not shown in the figures)

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>JEANNE HARRIGAN</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>305-5934</u>	AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: <u>CP2-2008</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/30</u>	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____
Date Completed: <u>1/30</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>75</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>60</u>	Other _____	Other (specify) _____

January 30, 2003

TO: Robin Hylton, Art Unit 3727  
CP2, Room 9-D-31

FROM: Jeanne Horrigan, EIC-3700 

SUBJECT: Search Results for Serial #09/965973

Attached are the search results for the "Leak-proof Closure Apparatus," including results of prior art and inventor searches in foreign patent databases, and prior art searches in packaging and product-related non-patent databases.

I tagged the items that seemed to me to be most relevant, but **I suggest that you review all of the results.**

Also attached is a "*Search Results Feedback Form*." Your feedback will help enhance our search services.

I hope these results are useful. Please let me know if you would like me to expand or modify the search or if you have any questions.

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200306  
(c) 2003 Thomson Derwent  
File 344:Chinese Patents Abs Aug 1985-2002/Dec  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2002/Sep(Updated 030102)  
(c) 2003 JPO & JAPIO  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	17	AU='FREEMAN M A'
S2	1	AU='STRINGER T K'
S3	1	S1 AND S2

3/34/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

009381885 \*\*Image available\*\*  
WPI Acc No: 1993-075363/199309

**Spill resistant container closure - has spout with thin membrane at upper  
end having slit to allow fluid passage under suction**

Patent Assignee: FREEMAN M A (FREE-I)  
Inventor: **FREEMAN M A ; STRINGER T K**  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5186347	A	19930216	US 91776793	A	19911015	199309 B

Priority Applications (No Type Date): US 91776793 A 19911015

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5186347	A		7	B65D-051/18	

Abstract (Basic): US 5186347 A

The controllable valved closure for use in dispensing a beverage from a container, has a planar cover portion conforming in shape to the opened end of the container. A spout has an outer end. The spout extends upwardly and outwardly from the cover portion. An elongated opening is located near the outer end of the spout. The opening provides communication between the interior and exterior of the spout.

The opening is completely contained within the user's mouth during operation of the closure. A thin membrane has attachments for attaching the thin membrane to an inner surface of the spout.

ADVANTAGE - Simplified construction for ease of mass prodn.

Dwg.2/6

Derwent Class: Q33

International Patent Class (Main): B65D-051/18

File 348:EUROPEAN PATENTS 1978-2003/Jan W04

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030123,UT=20030116

(c) 2003 WIPO/Univentio

Set	Items	Description
S17	3	AU='FREEMAN MARK' <i>not relevant</i>

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200307  
(c) 2003 Thomson Derwent  
File 344:Chinese Patents Abs Aug 1985-2002/Dec  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2002/Sep(Updated 030102)  
(c) 2003 JPO & JAPIO  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	291532	LID OR LIDS OR CAP OR CAPS
S2	479536	CLOSURE? ? OR SEAL OR SEALS
S3	572602	CONTAINER? ? OR RECEPTACLE? ?
S4	389944	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	123513	RECESSED
S6	1013265	CHANNEL? ? OR GROOVE OR GROOVES
S7	351396	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	260036	RECESS OR RECESSES
S9	214040	LEAK??? OR LEAKPROOF
S10	4929	S1:S4 AND (S5 OR S8) (5N)S6:S7
S11	9458	S5()S6:S7
S12	1558	S1:S4 AND S11
S13	103	S9 AND S12
S14	21	S1:S4(5N)S9 AND S13
S15	1238230	LIQUID? ? OR BEVERAGE? ? OR COFFEE OR TEA
S16	132	S12 AND S15
S17	19	S13 AND S15
S18	36	S14 OR S17
S19	11	S18/2003 OR S18/2002 OR S18/2001 OR S18/2000
S20	25	S18 NOT S19
S21	25	IDPAT (sorted in duplicate/non-duplicate order)
S22	0	IC=B56D
S23	0	S12 AND S22
S24	310508	IC=B65D
S25	251	S12 AND S24
S26	9	S9 AND S25
S27	2	S26 NOT S18

20/26, TI/1 (Item 1 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008898158  
WPI Acc No: 1992-025427/199204  
Removing fillings from bags - involves holding and sealing parts clamped  
to allow deformation of removal part

20/26, TI/2 (Item 2 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004559618  
WPI Acc No: 1986-062962/198610  
Multistage sealless centrifugal pump - has first stage impeller with  
radial fins and protruding rotary ring to form water seal

20/26, TI/3 (Item 3 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

001289636  
WPI Acc No: 1975-H3547W/197529  
Elastomer sleeve coupling seal - composite seal has soft centre  
section which deforms under pressure to provide sealing

20/26, TI/4 (Item 1 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06353057  
JOINT OF SOFT PIPE

20/26, TI/5 (Item 2 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06276692  
HOSE CONNECTOR FOR FLUID

20/26, TI/6 (Item 3 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06078035  
TRIGGER TYPE LIQUID EJECTOR

20/26, TI/7 (Item 4 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06046776  
TWO-COMPONENT MIXING CONTAINER

20/26, TI/8 (Item 5 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06046775

TWO-COMPONENT MIXING CONTAINER

20/26, TI/9 (Item 6 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06003472  
WATER ELECTROLYZING TANK

20/26, TI/10 (Item 7 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05817485  
CAP SETTING STRUCTURE OF WRITING IMPLEMENT

20/26, TI/11 (Item 8 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05731687  
STOPPER FOR LIQUID CONTAINER

20/26, TI/12 (Item 9 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04905292  
SCROLL TYPE FLUID MACHINERY

20/26, TI/13 (Item 10 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04893164  
METHOD FOR DRAWING OUT CAST SLAB AT THE INITIAL STAGE OF CASTING IN  
CONTINUOUS CASTING AND ITS DUMMY BAR HEAD

20/26, TI/14 (Item 11 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04829931  
SUBSTRATE PROCESSING LIQUID CONTAINER AND SUBSTRATE PROCESSING  
EQUIPMENT

20/26, TI/15 (Item 12 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04188477  
SCROLL COMPRESSOR

20/26, TI/16 (Item 13 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

03888762  
MEDICAL NEEDLE PLUG



20/26, TI/17 (Item 14 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

03775382

VARIABLE DISPLACEMENT BENT AXIS TYPE FLUID PRESSURE MACHINE

20/26, TI/18 (Item 15 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

03748094

PLATE TYPE HEAT EXCHANGER

20/26, TI/19 (Item 16 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

03561747

SEALING WATER DEVICE IN CENTRIFUGAL CLARIFIER

20/26, TI/20 (Item 17 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

03337164

METHOD AND DEVICE FOR MOUNTING PORT OF BAG FOR MEDICAL TREATMENT

20/26, TI/21 (Item 18 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

02827985

SCROLL COMPRESSOR

20/26, TI/22 (Item 19 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

02421701

ROTARY ENGINE

20/26, TI/23 (Item 20 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

02326358

SEALING STRUCTURE FOR FUEL CELL

20/26, TI/24 (Item 21 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

01572348

X-RAY LEAKAGE PREVENTION DEVICE FOR ANODE CAP

20/26, TI/25 (Item 22 from file: 347)

DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

01564655  
MOUNTING METHOD OF ENGINE OIL PAN  
?t20/3,k/11,14

20/3,K/11 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05731687 \*\*Image available\*\*  
STOPPER FOR LIQUID CONTAINER

PUB. NO.: 10-014787 [JP 10014787 A]  
PUBLISHED: January 20, 1998 (19980120)  
INVENTOR(s): KATO TAKASHI  
KUWANA TAKESHI  
YAMADA MASASHI  
GOTO TORU  
APPLICANT(s): NIPPON SANSO KK [352277] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 08-168053 [JP 96168053]  
FILED: June 27, 1996 (19960627)

STOPPER FOR LIQUID CONTAINER

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a stopper with which the leakage of contents can be prevented by practically eliminating the defect of sealing caused by blurs generated at the time of seal packing formation...  
...SOLUTION: Concerning the stopper for liquid container where a recessed groove is provided over the full periphery of outer peripheral part of a stopper body and a loop-shaped seal packing 4 having a tongue piece 45 protruded down outside along the full periphery is fitted into this recessed groove so as to press-contact the tongue piece with the inside surface of main body of a container for storing content liquid, the tongue piece is provided with a straight part 43 straightly extended toward the perpendicular...

20/3,K/14 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04829931 \*\*Image available\*\*  
SUBSTRATE PROCESSING LIQUID CONTAINER AND SUBSTRATE PROCESSING EQUIPMENT

PUB. NO.: 07-122531 [JP 7122531 A]  
PUBLISHED: May 12, 1995 (19950512)  
INVENTOR(s): MAEKAWA NAOTADA  
APPLICANT(s): DAINIPPON SCREEN MFG CO LTD [351872] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 05-287340 [JP 93287340]  
FILED: October 22, 1993 (19931022)

SUBSTRATE PROCESSING LIQUID CONTAINER AND SUBSTRATE PROCESSING EQUIPMENT

#### ABSTRACT

PURPOSE: To prevent contact between a processing liquid and the atmosphere and leakage of the vapor of processing liquid to the atmosphere by isolating the processing liquid perfectly from the atmosphere...  
...substrate and a cover body 35 is applied thereon. The cover body 35 is a recessed vessel opening downward and set at such position as the end of

opening 35a enters into...

... the inside of the cover body 35 is isolated from the outside thereof at the **liquid** level between the cover body 35 and the overflow tank 33. An exhaust nozzle 37...

27/26/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008000835 \*\*Image available\*\*  
WPI Acc No: 1989-265947/198937

Metallic coffin or coffin liner - has one-piece metal sheet with sides  
and corner gussets which may be folded into a sealed coffin shape

27/26/2 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05297701 \*\*Image available\*\*  
AUGER SHAFT SUPPORT DEVICE IN CHARGING MACHINE OF POWDERED MATERIAL

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200307  
(c) 2003 Thomson Derwent  
File 344:Chinese Patents Abs Aug 1985-2002/Dec  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2002/Sep(Updated 030102)  
(c) 2003 JPO & JAPIO  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	291532	LID OR LIDS OR CAP OR CAPS
S2	479536	CLOSURE? ? OR SEAL OR SEALS
S3	572602	CONTAINER? ? OR RECEPTACLE? ?
S4	389944	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	123513	RECESSED
S6	1013265	CHANNEL? ? OR GROOVE OR GROOVES
S7	351396	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	260036	RECESS OR RECESSES
S9	214040	LEAK??? OR LEAKPROOF
S10	9458	S5()S6:S7
S11	103	S1:S4 AND S9 AND S10
S12	21	S1:S4(5N)S9 AND S11
S13	1238230	LIQUID? ? OR BEVERAGE? ? OR COFFEE OR TEA
S14	19	S11 AND S13
S15	36	S12 OR S14
S16	11	S15/2003 OR S15/2002 OR S15/2001 OR S15/2000

16/26, TI/2 (Item 2 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

014580599

WPI Acc No: 2002-401303/ 200243

Nitrogen gas injector of evaporator for refrigerant system

16/26, TI/3 (Item 3 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

014219031

WPI Acc No: 2002-039729/ 200205

Seal structure for preventing leakage of cylinder head

16/26, TI/4 (Item 1 from file: 347)  
DIALOG(R) File 347: JAPIO  
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07374587

COUPLING

16/26, TI/5 (Item 2 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07303681

SEALING STRUCTURE OF LIQUID PORT FOR MEDICAL CARE IMPLEMENT AND MEDICAL CARE IMPLEMENT HAVING THE SEALING STRUCTURE

16/26, TI/6 (Item 3 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06896460

SEAL MEMBER AND SCROLL-TYPE FLUID MACHINE USING IT

16/26, TI/7 (Item 4 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06852864

DOOR WEATHER STRIP FOR AUTOMOBILE

16/26, TI/8 (Item 5 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06830513

SYRINGE FILLED WITH MEDICINE AND PISTON

16/26, TI/9 (Item 6 from file: 347)  
DIALOG(R) File 347: JAPIO  
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06668725

FIXATION APPARATUS FOR CASING COVER FOR CENTRIFUGAL FILTRATION APPARATUS

16/26, TI/10 (Item 7 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06648866  
FASTENING DISPLAY DEVICE OF TUBE COUPLING

16/26, TI/11 (Item 8 from file: 347)  
DIALOG(R) File 347: JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06467550  
CONTAINER HAVING SPOUT  
?t16/7/1,5

16/7/1 (Item 1 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

014886957 \*\*Image available\*\*  
WPI Acc No: 2002-707663/ 200276

Prevention method of cutting out leakage of container gas has  
recessed groove part

Patent Assignee: SUMITOMO PRECISION PROD CO (SUMP )

Inventor: MATSUMOTO S; MIZUKAWA S; NAKATA K

Number of Countries: 003 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200282520	A1	20021017	WO 2002JP2222	A	20020308	200276 B
JP 2002299311	A	20021011	JP 200199127	A	20010330	200281

Priority Applications (No Type Date): JP 200199127 A 20010330

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200282520 A1 J 20 H01L-021/306

Designated States (National): CN KR

JP 2002299311 A 6 H01L-021/306

Abstract (Basic): WO 200282520 A1

NOVELTY - A container with leakage cutout structure capable of surely preventing the leakage of internal gas, comprising a container body (3) opening upward and having a specified internal volume and a cover body (21) placed on the container body to close an opening part (11), wherein an annular recessed groove part (12) opening upward is formed in the outer peripheral part of the upper end part (10) of the container body and liquid is stored in the recessed groove part, a suspending part suspending from the peripheral edge part of the cover body downward is formed on the peripheral edge of the cover body, and the suspending part is fitted onto the upper end part of the container body in the state of the lower end part dipped into the liquid stored in the recessed groove .

DESCRIPTION OF DRAWING(S) - body (3)

upper end part (10)

opening part (11)

annular recessed groove part (12)

cover body (21)

pp; 20 DwgNo 2/4

Derwent Class: U11

International Patent Class (Main): H01L-021/306

International Patent Class (Additional): B65D-053/00; F16J-015/10;

F16J-015/14

16/7/5 (Item 2 from file: 347)  
DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

07303681      \*\*Image available\*\*

SEALING STRUCTURE OF **LIQUID** PORT FOR MEDICAL CARE IMPLEMENT AND MEDICAL CARE IMPLEMENT HAVING THE SEALING STRUCTURE

PUB. NO.:        2002-172161 [JP 2002172161 A]  
PUBLISHED:      June 18, 2002 ( **20020618**)  
INVENTOR(s):    NISHIHARA TETSUO  
APPLICANT(s):   ASAHI MEDICAL CO LTD  
APPL. NO.:      2000-374050 [JP 2000374050]  
FILED:          December 08, 2000 (20001208)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a sealing structure of a **liquid** port for a medical care implement which is easy to put and remove a **cap** , prevents direct contact to the **liquid** port 21 in the case of sealing and the case of removing the **cap** and perfectly prevents an internal **liquid** from being **leaked** due to the coming off of the **cap** , or the like, when the internal pressure of a **container** is raised in the case of sterilization or transportation, and a medical care implement 10 having such sealing structure.

SOLUTION: Projected lines 26a and 26b are formed at a cylindrical wall 23 as the ports 21. Concerning a **cap** 30 to cover the wall 23 in a closely sealing state, a cylindrical and closely sealing body 33 is formed integrally on the back surface of a top plate 31, and the entering parts 38 of the lines 26a and 26b and **recessed grooves** 36a and 36b into which the entering parts 38 of the projected lines 26a and 26b as well as the projected lines 26a and 26b which enter the entering parts 38 when turning the **cap** 30 can be entered are formed on the inner peripheral surface of a cylinder 32.

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File 348:EUROPEAN PATENTS 1978-2003/Jan W04

(c). 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030123,UT=20030116

(c). 2003 WIPO/Univentio

Set	Items	Description
S1	122902	LID OR LIDS OR CAP OR CAPS
S2	176688	CLOSURE? ? OR SEAL OR SEALS
S3	190471	CONTAINER? ? OR RECEPTACLE? ?
S4	110345	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	35527	RECESSED
S6	346994	CHANNEL? ? OR GROOVE OR GROOVES
S7	184274	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	113444	RECESS OR RECESSES
S9	97738	LEAK??? OR LEAKPROOF
S10	40618	IC=B65D
S11	27199	S1:S4 AND S10
S12	1327	S5()S6:S7
S13	143	S1:S4(10N)S12
S14	29	S10 AND S13
S15	29	IDPAT (sorted in duplicate/non-duplicate order)
S16	27	IDPAT (primary/non-duplicate records only)

16/TI/1 (Item 1 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

Shock-resistant and environmentally sealed container with pressure equalization  
Stossfester und gegenüber der Umgebung abgedichteter Behälter mit Druckausgleich  
Recipient resistant aux chocs et étanche à l'environnement avec égalisation de pression

16/TI/2 (Item 2 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

SYNTHETIC RESIN TUBE CONTAINER  
KUNSTSTOFFTUBE  
RECIPIENT TUBULAIRE EN RESINE SYNTHETIQUE

16/TI/3 (Item 3 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

SYNTHETIC RESIN TUBE CONTAINER  
ROHRFORMIGER KUNSTSTOFFBEHALTER  
RECIPIENT TUBULAIRE DE RESINE SYNTHETIQUE

16/TI/4 (Item 4 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

Cam-on filler neck cap.  
Fullstutzenkappe mit Bayonettverschluss.  
Capuchon de tubulure de remplissage à bayonnette.

16/TI/5 (Item 5 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

POUR SPOUT  
AUSGIESSER  
EMBOUT VERSEUR

16/TI/6 (Item 6 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

Pressure resistant bottle-shaped container.  
Druckfester flaschenartiger Behälter.  
Recipient en forme de bouteille, résistant à la pression.

16/TI/7 (Item 7 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

Easily openable container and method of producing the same.  
Leicht zu öffnender Behälter und Verfahren zu seiner Herstellung.  
Recipient à ouverture facile et son procédé de fabrication.

16/TI/8 (Item 8 from file: 348)  
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

Transportation and protection package.  
Verpackung zur Transportsicherung.  
Emballage de transport et de protection.

16/TI/9 (Item 9 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Ink refill cartridge for ink jet printers.  
Tintennachfullpatrone fur Tintenstrahldrucker.  
Cartouche de recharge pour imprimantes a jet d'encre.

16/TI/10 (Item 10 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Mitigation of stress-cracking in stacked loads of fragranced  
bleach-containing bottles, bottles containing such fragranced bleach,  
bleach for use in such bottle  
Abschwachung von Spannungsrissen in gestapelten Lasten von parfümiertes  
Bleichmittel enthaltende Flaschen, solche parfümiertes Bleichmittel  
enthaltenden Flasche  
Reduction des fissures sous tension dans des charges empilees de bouteilles  
contenant des agents de blanchiment parfumes; bouteilles contenant ces  
agents de bla

16/TI/11 (Item 11 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Beverage containers.  
Behälter für Getränke.  
Recipients pour boissons.

16/TI/12 (Item 12 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Child resistant dispensing closure.  
Kindersicherheitsverschluss.  
Fermeture de securite a l'egard des enfants.

16/TI/13 (Item 13 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Pressure resistant bottle-shaped container.  
Druckfester flaschenartiger Behälter.  
Recipient sous forme de bouteille, resistant a la pression.

16/TI/14 (Item 14 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

Resilient squeeze bottle package for dispensing viscous products without  
belching.  
Elastische Tubenflaschenverpackung für die Verteilung viskoser Produkte  
ohne Aufstossen.  
Emballage de bouteille elastique a presser pour la distribution de produits  
visqueux sans eructer.

16/TI/15 (Item 15 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

RETORTABLE PLASTIC CONTAINER  
CONTENEUR EN PLASTIQUE STERILISABLE

16/TI/16 (Item 16 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

END STOP FOR CLOSURE DEVICE  
BUTEE POUR DISPOSITIF DE FERMETURE

16/TI/17 (Item 17 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

STORAGE CONTAINER  
CONTENEUR DE STOCKAGE

16/TI/18 (Item 18 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

DEHUMIDIFYING DEVICE FOR DRY CONTAINER  
DISPOSITIF DE DESHUMIDIFICATION POUR CONTENANT SEC

16/TI/19 (Item 19 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

THIN-WALLED PLASTIC CONTAINER WITH REINFORCING RIBS  
RECIPIENT EN PLASTIQUE AUX PAROIS FINES DOTE DE NERVURES DE RENFORT

16/TI/20 (Item 20 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

HOT FILL CONTAINERS WITH IMPROVED TOP LOAD CAPABILITIES  
RECIPIENTS POUR REMPLISSAGE A CHAUD, AVEC MEILLEURES CAPACITES DE  
CHARGEMENT PAR LE HAUT

16/TI/21 (Item 21 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

COMPACT DISC IDENTIFICATION STAMP  
TIMBRE D'IDENTIFICATION DE DISQUE AUDIONUMERIQUE

16/TI/22 (Item 22 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

COMBINED PHOTO AND NEGATIVE STORAGE CONTAINER  
BOITIER DE RANGEMENT DE PHOTOGRAPHIES ET DE NEGATIFS COMBINE

16/TI/23 (Item 23 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

VENTED POUR SPOUT AUTOMATICALLY ACCOMMODATING OF FLUID VISCOSITY  
TUBE VERSEUR VENTILE A COMPENSATION AUTOMATIQUE DE LA VISCOSITE DU FLUIDE

16/TI/24 (Item 24 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

RECYCLABLE BEVERAGE PACKAGE WITH BLOW MOLDED PLASTIC CONTAINER AND OXYGEN  
BARRIER WRAP  
CONDITIONNEMENT RECYCLABLE DE BOISSONS COMPRENANT UN RECIPIENT DE PLASTIQUE  
SOUFFLE ET UNE ENVELOPPE IMPERMEABLE A L'OXYGENE

16/TI/25 (Item 25 from file: 349)  
DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

SELF-CONTAINED PACKAGE FOR HOUSING, DISPENSING AND DILUTING CONCENTRATED

**LIQUID**  
**EMBALLAGE AUTONOME POUR LOGER, DISTRIBUER ET DILUER UN LIQUIDE CONCENTRE**

**16/TI/26 (Item 26 from file: 349)**  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

**CONTAINER CLOSURE WITH STABLE OPEN POSITIONS**  
**FERMETURE POUR RECIPIENT AVEC POSITIONS OUVERTES STABLES**

**16/TI/27 (Item 27 from file: 349)**  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

**SHARPS DISPOSAL CONTAINER**  
**CONTENEUR POUR L'ELIMINATION D'INSTRUMENTS PIQUANTS ET TRANCHANTS**

**Summary:**

S15 has 29 records ordered as follows:

- 3 patent groups (records 1-6)
- 23 patent records without duplicates (records 7-29)

- 1. Show Group Table
- 2. Show Summary
- 3. Quit
- 4. TYPE or PRINT Selected Records
- 5. TYPE or PRINT Primary and Non-Duplicate Records

Enter an option (e.g., 4).

Exiting IDPAT. Enter DISPLAY SETS (DS) to review existing sets.

?t16/3,k/1,4,11-13,15,17,24-26

**16/3,K/1 (Item 1 from file: 348)**  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

01417934

**Shock-resistant and environmentally sealed container with pressure equalization**

**Stossfester und gegenuber der Umgebung abgedichteter Behalter mit Druckausgleich**

**Recipient resistant aux chocs et etanche a l'environnement avec egalisation de pression**

**PATENT ASSIGNEE:**

Underwater Kinetics, Inc., (3925770), 13400 Danielson Street, Poway, California 92064, (US), (Applicant designated States: all)

**INVENTOR:**

Uke, Alan, 13400 Danielson Street,, Poway, California 92064, (US)

Arnett, Jeffrey, 3362 Avocado Vista Lane,, Fallbrook, California 92028, (US)

Thomas, Matthew, 6914 Hoffman Avenue, La Mesa, California 91941, (US)

**LEGAL REPRESENTATIVE:**

Beck, Simon Antony et al (79081), Withers & Rogers, Goldings House, 2 Hays Lane, London SE1 2HW, (GB)

PATENT (CC, No, Kind, Date): EP 1197437 A2 020417 (Basic)

APPLICATION (CC, No, Date): EP 2001308732 011012;

PRIORITY (CC, No, Date): US 911928 010723; US 689001 001012

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B65D-006/18 ; B65D-043/16 ; B65D-045/24 ; B65D-051/16 ; B65D-081/18 ; B65D-081/22

ABSTRACT WORD COUNT: 241

**NOTE:**

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	200216	2513
SPEC A	(English)	200216	5458
Total word count - document A			7971
Total word count - document B			0
Total word count - documents A + B			7971

INTERNATIONAL PATENT CLASS: B65D-006/18 ...

... B65D-043/16 ...

... B65D-045/24 ...

... B65D-051/16 ...

... B65D-081/18 ...

... B65D-081/22

...SPECIFICATION 120 is positioned between the first section 25 and the second section 30 of the **container** 20. In one embodiment the gasket 120 resides in a **recessed channel** in the first section 25, but it will be appreciated that the gasket 120 can...

16/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00723268

**Cam-on filler neck cap.**

**Fullstutzenkappe mit Bayonettverschluss.**

**Capuchon de tubulure de remplissage a bayonnette.**

PATENT ASSIGNEE:

STANT MANUFACTURING INC., (1680050), 1620 Columbia Avenue, Connersville,  
IN 47331-1696, (US), (applicant designated states: DE;GB)

INVENTOR:

Tallent, Wallace D., 1601 Chapman Drive, Greenfield, Indiana 46140, (US)

Griffin, Jeffery, Route 6,1Box 414A, Connersville, Indiana 47331, (US)

LEGAL REPRESENTATIVE:

Adkins, Michael et al (42842), Withers & Rogers 4 Dyer's Buildings

Holborn, London EC1N 2JT, (GB)

PATENT (CC, No, Kind, Date): EP 683108 A2 951122 (Basic)

EP 683108 A3 960131

APPLICATION (CC, No, Date): EP 95301243 950227;

PRIORITY (CC, No, Date): US 246413 940520

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: B65D-051/00 ; B65D-039/10

ABSTRACT WORD COUNT: 155

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB95	2239
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SPEC A	(English)	EPAB95	3760
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Total word count - document A			5999
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Total word count - document B			0
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Total word count - documents A + B			5999
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INTERNATIONAL PATENT CLASS: B65D-051/00 ...

... B65D-039/10

...CLAIMS neck-closing position.

4. The closure assembly of claim 2, wherein the body of the **cap** includes an exterior wall and a **recessed channel** formed in the exterior wall, the inner retaining member is appended to the exterior wall, and the latch arm and anti-drift lug are positioned to lie adjacent to the **recessed channel** and away from the exterior wall.

5. The **closure** assembly of claim 4, wherein the exterior wall of the body has a cylindrical shape...

16/3,K/11 (Item 11 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00314371

**Beverage containers.**

**Behälter für Getränke.**

**Recipients pour boissons.**

PATENT ASSIGNEE:

Lyon, Christopher Johns, (996340), Route 2, Box 400, Estill South  
Carolina 29918, (US), (applicant designated states:  
AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Lyon, Christopher Johns, Route 2, Box 400, Estill South Carolina 29918,  
(US)

LEGAL REPRESENTATIVE:

Everitt, Christopher James Wilders et al (30471), F.J. CLEVELAND &  
COMPANY 40/43 Chancery Lane, London WC2A 1JQ, (GB)

PATENT (CC, No, Kind, Date): EP 299734 A1 890118 (Basic)  
EP 299734 B1 940406

APPLICATION (CC, No, Date): EP 88306403 880713;

PRIORITY (CC, No, Date): GB 8716424 870713

DESIGNATED STATES (Pub A): ES; GR; (Pub B): AT; BE; CH; DE; ES; FR; GB; GR;  
IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: **B65D-025/28**

ABSTRACT WORD COUNT: 183

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	603
CLAIMS B	(German)	EPBBF1	591
CLAIMS B	(French)	EPBBF1	677
SPEC B	(English)	EPBBF1	2893
Total word count - document A			0
Total word count - document B			4764
Total word count - documents A + B			4764

INTERNATIONAL PATENT CLASS: **B65D-025/28**

...CLAIMS to any one of Claims 1 to 7, wherein the open-topped vessel (10)  
is **recessed** at its bottom for stacking.

9. A beverage **container** according to any one of Claims 1 to 8,  
wherein the top of the lid (12) is...

16/3,K/12 (Item 12 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00310940

**Child resistant dispensing closure.**

**Kindersicherheitsverschluss.**

**Fermeture de securite a l'egard des enfants.**

PATENT ASSIGNEE:

POLYTOP CORPORATION, (436800), 110 Graham Drive, Slatersville Rhode  
Island 02876, (US), (applicant designated states:  
AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

La Vange, Donald, White Hill Lane, Cumberland, Rhode Island 02864, (US)

LEGAL REPRESENTATIVE:

Spence, Anne et al (36205), Fry, Heath & Spence Mill House Wandle Road,  
Beddington Croydon Surrey CR0 4SD, (GB)

PATENT (CC, No, Kind, Date): EP 285433 A1 881005 (Basic)  
 EP 285433 B1 920226  
 APPLICATION (CC, No, Date): EP 88302923 880331;  
 PRIORITY (CC, No, Date): US 32562 870401; US 139745 871230  
 DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE  
 INTERNATIONAL PATENT CLASS: **B65D-055/02**  
 ABSTRACT WORD COUNT: 623  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:  

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	3505
CLAIMS B	(German)	EPBBF1	1152
CLAIMS B	(French)	EPBBF1	1407
SPEC B	(English)	EPBBF1	6132
Total word count - document A			0
Total word count - document B			12196
Total word count - documents A + B			12196

INTERNATIONAL PATENT CLASS: **B65D-055/02**

...SPECIFICATION the dispensing opening.

In a second embodiment the invention also provides a child resistant dispensing **closure** in which the **cap** base member has an elongated **recessed groove** formed in its top surface, the groove having a first end and a second end...

...CLAIMS slot.

10. A child resistant dispensing closure (410) according to any of Claims 1 to 3 in which the **cap** base member has an elongated **recessed groove** (426) formed in its top surface, the **groove** having a first end (424) and a second end (436), the cap dispensing opening (448)...a polymer material.
7. The child resistant dispensing closure recited in claim 1 wherein said **cap lid** member is connected to said **cap base member** by means of a spring member, said **cap lid** member and said spring member being integrally formed of a polymer material.
8. A child...

16/3,K/13 (Item 13 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2003 European Patent Office. All rts. reserv.

00309321

**Pressure resistant bottle-shaped container.**

**Druckfester flaschenartiger Behälter.**

**Recipient sous forme de bouteille, résistant a la pression.**

PATENT ASSIGNEE:

Yoshino Kogyosho Co., Ltd., (231000), No. 2-6, Ojima 3-chome, Koto-ku, Tokyo 136, (JP), (applicant designated states: CH;DE;FR;GB;IT;LI;NL)

INVENTOR:

Hayashi, Yoshiaki, Yoshino Kogyosho Co. Ltd. No. 2-6 Ojima 3-Chome, Koto-Ku Tokyo, (JP)

Itakura, Takeshi, Yoshino Kogyosho Co. Ltd. No. 310 Minoridai, Matsudo-Shi Chiba-Ken, (JP)

Kato, Toyoji, Yoshino Kogyosho Co. Ltd. No. 310 Minoridai, Matsudo-Shi Chiba-Ken, (JP)

Koshidaka, Yukio, Yoshino Kogyosho Co. Ltd. No. 2-6 Ojima 3-Chome, Koto-Ku Tokyo, (JP)

LEGAL REPRESENTATIVE:

Heath, Derek James et al (31711), BROMHEAD & CO. 19 Buckingham Street, London WC2N 6EF, (GB)

PATENT (CC, No, Kind, Date): EP 279628 A2 880824 (Basic)  
 EP 279628 A3 890315  
 EP 279628 B1 930505

APPLICATION (CC, No, Date): EP 88301276 880216;  
 PRIORITY (CC, No, Date): JP 8734007 870217; JP 8734008 870217



DESIGNATED STATES: CH; DE; FR; GB; IT; LI; NL  
INTERNATIONAL PATENT CLASS: B65D-001/02  
ABSTRACT WORD COUNT: 99

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	309
CLAIMS B	(German)	EPBBF1	304
CLAIMS B	(French)	EPBBF1	341
SPEC B	(English)	EPBBF1	3736
Total word count - document A			0
Total word count - document B			4690
Total word count - documents A + B			4690

INTERNATIONAL PATENT CLASS: B65D-001/02

16/3,K/15 (Item 15 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00940821 \*\*Image available\*\*

**RETORTABLE PLASTIC CONTAINER**  
**CONTENEUR EN PLASTIQUE STERILISABLE**

Patent Applicant/Assignee:

CONSOLIDATED CONTAINER CORPORATION LLC, 2515 McKinney Avenue, Suite 850,  
Dallas, TX 75201, US, US (Residence), US (Nationality)

Inventor(s):

HEISEL Timothy, 330 Terrace Drive, Bartlett, IL 60103, US,  
STASIAK Annette, 553 Milton Drive, Naperville, IL 60563, US,  
FARRELL Christopher, 431 South Evergreen Avenue, Arlington Heights, IL  
60005, US,

Legal Representative:

METZGER David R (et al) (agent), Sonnenschein Nath & Rosenthal, Wacker  
Drive Station - Sears Tower, P.O. Box 061080, Chicago, IL 60606-1080,  
US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200274635 A1 20020926 (WO 0274635)  
Application: WO 2002US8075 20020318 (PCT/WO US0208075)  
Priority Application: US 2001809960 20010316

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5710

Main International Patent Class: B65D-001/02

International Patent Class: B65D-001/40 ...

... B65D-023/00

Fulltext Availability:

Claims

Claim

... The retortable plastic container of claim 1, wherein the flexing  
includes a plurality of inwardly **recessed indentations** . 3 . The  
retortable plastic **container** of claim 1, wherein the flexing portion  
includes a plurality of ribs.

4 The retortable...

16/3,K/17 (Item 17 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv..

00808798 \*\*Image available\*\*

**STORAGE CONTAINER**

**CONTENEUR DE STOCKAGE**

Patent Applicant/Assignee:

REHRIG PACIFIC COMPANY, 4010 East 26th Street, Los Angeles, CA 90023, US,  
US (Residence), US (Nationality), (For all designated states except:  
US)

Patent Applicant/Inventor:

KOEFELDA Gerald R, 1640 Hermosa Avenue, Hermosa Beach, CA 90254, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

DIAMOND Konstantine J (et al) (agent), Brooks & Kushman, 1000 Town  
Center, Twenty-Second Floor, Southfield, MI 48075, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200142102 A1 20010614 (WO 0142102)

Application: WO 2000US32803 20001204 (PCT/WO US0032803)

Priority Application: US 99457051 19991207

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4737

Main International Patent Class: **B65D-043/00**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... such that they extend upwardly from top surface 25 and inwardly from  
outboard portion of lid 24 such that they mate securely with their  
corresponding recessed channel portions.

Lid 24 also includes a recessed area 62, including corner recessed  
portions 64, 66, 68, 70...

Claim

... at least one

recessed portion defines a plurality of downwardly projecting portions.

24 The plastic container of claim 18, wherein the at least one  
recessed channel portions are integrally formed with and open at its  
corresponding side wall.

16/3,K/24 (Item 24 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv..

00277190 \*\*Image available\*\*

**RECYCLABLE BEVERAGE PACKAGE WITH BLOW MOLDED PLASTIC CONTAINER AND OXYGEN  
BARRIER WRAP**

**CONDITIONNEMENT RECYCLABLE DE BOISSONS COMPRENANT UN RECIPIENT DE PLASTIQUE  
SOUFFLE ET UNE ENVELOPPE IMPERMEABLE A L'OXYGENE**

Patent Applicant/Assignee:

ECCO INC,

Inventor(s):

RUPERT Samuel J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9425366 A1 19941110.

Application: WO 94US4619 19940426 (PCT/WO US9404619)

Priority Application: US 9354097 19930430; US 93151958 19931115

Designated States: AT AU BB BG BR BY CH CN CZ DE DK ES FI GB HU JP KP KR KZ

LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ VN AT BE CH DE DK

ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD

TG

Publication Language: English

Fulltext Word Count: 2737

Main International Patent Class: B65D-077/00

International Patent Class: B65D-21:00

Fulltext Availability:

Detailed Description

Claims

English Abstract

...beverage is consumed resulting in two separate, single material components for easy recycling. The molded **container** (10) includes an upright side wall (14) having a **recessed groove** (22) sized to receive and store a telescoping straw (24) for use in drinking the...

Detailed Description

... of a single material and each readily recycled.

In a preferred embodiment, the blow molded **container** includes a **recessed groove** in its side wall for placement of a straw therein. A telescoping straw is used...

...a bend in the straw is no longer required. By placing the straw in a **recessed groove** in the **container**, the straw need not extend outwardly from the side of the container where it can...top wall 16 around the periphery of the opening 18 to close and seal the **container**.

The **container** side wall 14 is formed with a **recessed groove** 22 which is used to house a straw 24 for use in drinking the beverage...

...FIG.3, the overall length of the straw is less than the height of the **container** 10, This permits the straw to be contained within the **recessed groove** 22 and eliminates the need for a bendable straw, The straw 24 is preferably contained...

Claim

... to oxygen.

2 The package for a beverage of Claim 1 further comprising:

a **recessed groove** in said **container** side wall projecting into said **container**; and  
a straw disposed in said groove for use in drinking the beverage from said...

...oxygen,

8\* The package for a beverage of Claim 7 wherein each said molded **containers** includes a **recessed groove** in said upright side wall and further comprising a straw entirely disposed in each said...said bottom wall and said top wall, said side wall being configured to form a **recessed groove** projecting into said **container** of a size to receive a straw for use in drinking

a beverage from said...

...of opposite spaced major faces with each of said  
major faces containing one of said **recessed grooves**  
projecting into said **container**.

16/3,K/25 (Item 25 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00277183

**SELF-CONTAINED PACKAGE FOR HOUSING, DISPENSING AND DILUTING CONCENTRATED LIQUID**

**EMBALLAGE AUTONOME POUR LOGER, DISTRIBUER ET DILUER UN LIQUIDE CONCENTRE**

Patent Applicant/Assignee:

THE PROCTER & GAMBLE COMPANY,

Inventor(s):

HALL William Gerald,

DIRKSING Robert Stanley,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9425359 A1 19941110

Application: WO 94US3754 19940406 (PCT/WO US9403754)

Priority Application: US 9356215 19930430

Designated States: AU BB BG BR BY CA CN CZ GB GE HU JP KG KP KR KZ LK LV MD

MG MN MW NO NZ PL RO RU SD SI SK TJ TT UA UZ VN AT BE CH DE DK ES FR GB

GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 5477

Main International Patent Class: **B65D-047/12**

International Patent Class: **B65D-41:26**

Fulltext Availability:

Detailed Description

Detailed Description

... is distinctly visible to the user is preferably provided in the  
uppermost portion of the **closure**. This fill line typically  
comprises an embossed or **recessed groove** or an inflection created by  
a change in the **closure**'s diameter or other cross-section,  
The spout portion of the pretent invention normally fits...

16/3,K/26 (Item 26 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00199732

**CONTAINER CLOSURE WITH STABLE OPEN POSITIONS**

**FERMETURE POUR RECIPIENT AVEC POSITIONS OUVERTES STABLES**

Patent Applicant/Assignee:

KANTEC MANUFACTURING INC,

Inventor(s):

AMIDZICH Bradford G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9117091 A1 19911114

Application: WO 91US3046 19910503 (PCT/WO US9103046)

Priority Application: US 90173 19900504

Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CI CM DE DE DK

DK ES ES FI FR GA GB GB GR HU IT JP KP KR LK LU LU MC MG ML MR MW NL NL

NO RO SD SE SE SN SU TD TG

Publication Language: English

Fulltext Word Count: 4863

Main International Patent Class: **B65D-043/14**

International Patent Class: **B65D-51:04** ...

... B65D-43:16

Fulltext Availability:

Detailed Description

Detailed Description

... the

container, or may be otherwise formed. Although described for use in conjunction with a **container** having a **recessed groove** at the end thereof, the present invention may also be used with containers not having this groove or with containers having other shapes.

In Figure 1,, the hinged **lid** 10 includes a collar 22 adapted to fit into the **recessed groove** 18 of the **container** 14 to attach and secure the hinged lid 10 thereto. The collar 22 may be...transferred to foot 54 causing foot 54 to pivot so that it bears against the **recessed groove** 18 of the **container** 14. The end of the foot 54 travels in the curved path defined by the **recessed groove** 18 of the **container** 14 until it finds a stable position, which in this embodiment occurs where foot 54...

File 94:JICST-EPlus 1985-2003/Nov W3  
     (c)2003 Japan Science and Tech Corp(JST)  
 File 96:FLUIDEX 1972-2003/Jan  
     (c) 2003 Elsevier Science Ltd.  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Dec  
     (c) 2003 The HW Wilson Co.  
 File 35:Dissertation Abs Online 1861-2003/Dec  
     (c) 2003 ProQuest Info&Learning  
 File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Jan 29  
     (c) 2003 The Gale Group  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
     (c) 2002 The Gale Group  
 File 6:NTIS 1964-2003/Jan W4  
     (c) 2003 NTIS, Intl Cpyrghrt All Rights Res  
 File 8:Ei Compendex(R) 1970-2003/Jan W3  
     (c) 2003 Elsevier Eng. Info. Inc.  
 File 34:SciSearch(R) Cited Ref Sci 1990-2003/Jan W4  
     (c) 2003 Inst for Sci Info  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 65:Inside Conferences 1993-2003/Jan W4  
     (c) 2003 BLDSC all rts. reserv.  
 File 51:Food Sci.&Tech.Abs 1969-2003/Jan W3  
     (c) 2003 FSTA IFIS Publishing  
 File 53:FOODLINE(R): Food Science & Technology 1972-2003/Jan 29  
     (c) 2003 LFRA  
 File 144:Pascal 1973-2003/Jan W3  
     (c) 2003 INIST/CNRS  
 File 248:PIRA 1975-2003/Jan W4  
     (c) 2003 Pira International  
 File 252:Packaging Sci&Tech 1982-1997/Oct  
     (c) 1997 by Fraunhofer-ILV, Germany  
 File 323:RAPRA Rubber & Plastics 1972-2003/Feb  
     (c) 2003 RAPRA Technology Ltd

Set	Items	Description
S1	114842	LID OR LIDS OR CAP OR CAPS
S2	274843	CLOSURE? ? OR SEAL OR SEALS
S3	262890	CONTAINER? ? OR RECEPTACLE? ?
S4	144101	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	3990	RECESSED
S6	868327	CHANNEL? ? OR GROOVE OR GROOVES
S7	747922	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	8002	RECESS OR RECESSES
S9	175949	LEAK??? OR LEAKPROOF
S10	457337	COFFEE OR TEA OR DRINK??? OR BEVERAGE? ?
S11	5958	LIDS
S12	1720281	LIQUID? ?
S13	82741	S1:S4 AND (S10 OR S12)
S14	128	S5()S6:S7
S15	8120	S14 OR S8
S16	224	S13 AND S15
S17	1	S13 AND S14
S18	7	S1:S4 AND S14
S19	6	S18 NOT S17
S20	5	RD (unique items)
S21	1	S20/2003 OR S20/2002 OR S20/2001 OR S20/2000
S22	4	S20 NOT S21
S23	12	S13 AND S8 AND S9
S24	12	S23 NOT S17:S18
S25	9	RD (unique items)
S26	3	S25/2003 OR S25/2002 OR S25/2001 OR S25/2000
S27	6	S25 NOT S26
S28	6	Sort S27/ALL/PY,D
S29	43060	S1:S4 AND S6:S8
S30	1716	S29 AND S9
S31	238	S30 AND (S10 OR S12)

S32	226	S31 NOT (S24 OR S17 OR S18)
S33	191	RD (unique items)
S34	6	S33/2003 OR S33/2002
S35	15	S33/2001 OR S33/2000
S36	170	S33 NOT S34:S35
S37	390586	S1:S4/TI,DE
S38	135	S36 AND S37
S39	620	S6:S7(3N) (S5 OR S8)
S40	0	S38 AND S39
S41	0	S36 AND S39

17/7/1 (Item 1 from file: 53)  
DIALOG(R)File 53:FOODLINE(R): Food Science & Technology  
(c) 2003 LFRA. All rts. reserv.

00363197 FOODLINE ACCESSION NUMBER: 396830

**Recyclable** beverage **package** with **blow molded plastic** container and  
**oxygen barrier wrap**.

Rupert S J

PATENT ASSIGNEE: Ecco Inc

PATENT: US 5460264 B

PRIORITY APPLICATION DATE: 19940927

NOTES: Date of publication: 24.10.95

LANGUAGE: English

DOCUMENT TYPE: Patent

FOODLINE UPDATE CODE: 19951213

ABSTRACT: A single-serving juice **container** is described, which is made from blow-moulded plastic. The **container** is made from a single plastic resin such as high-density polyethylene (HDPE). As HDPE is oxygen-permeable, a barrier film is sealed around the filled **container** in order to increase the shelf-life of the product. When the **beverage** is consumed the barrier wrap and blow-moulded **container** are separated from one another and both components may be readily recycled. The **container** also includes a **recessed groove** in the side wall into which a telescopic straw can be stored, in order to prevent accidental removal.

SECTION HEADING: PACKAGING



22/6/4 (Item 1 from file: 323)

00610311

TITLE: METHOD AND DIE APPARATUS FOR PRODUCING PLASTIC MOULDING HAVING FOAM  
WITH SKIN

PATENT DATE: 19960319

?t22/3,k/1-3

>>>KWIC option is not available in file(s): 252

22/3,K/1 (Item 1 from file: 53)

DIALOG(R) File 53:FOODLINE(R): Food Science & Technology

(c) 2003 LFRA. All rts. reserv.

00896253 FOODLINE ACCESSION NUMBER: 569666

**Synthetic resin tube** container .

Shimizu M; Kishi T; Iizuka S; Ida T; Nose K; Kakuta Y; Goto T; Nakamura H;  
Tsuchida H; Kuwahara K

PATENT ASSIGNEE: Yoshino Kogyosho Co Ltd

PATENT: EP 1153842 A1

PATENT: WO 0102262

APPLICATION COUNTRY: JP (DATE(S):30.6.1999 24.9.1999 30.5.2000)

DESIGNATED STATES:

SeepublishedpatentdocumentforDesignatedContractingStates.

X-REFERENCE: FOOD PACKAGING

LANGUAGE: English

DOCUMENT TYPE: Patent

**Synthetic resin tube** container .

ABSTRACT: A synthetic resin tube **container** is formed such as to shorten  
the mouth-neck section and avoid overlapping of double...

...upper surface of the mouth-neck section is erected from a shell part of  
the **container** body through an inward flange-shaped wall and is closed  
by a top wall having...

...spout hole. An insert tube, connected through a hinge to a cover plate  
of a **cap** , is fitted closely to a **recessed groove** around the upper  
surface of the inward flange-shaped wall.

DESCRIPTORS: **CLOSURES** ; ...

...CONTAINERS; ...

... **LIDS** ; ...

...PLASTIC **CONTAINERS** ; ...

...TUBULAR **CONTAINERS**

22/3,K/2 (Item 1 from file: 144)

DIALOG(R) File 144:Pascal

(c) 2003 INIST/CNRS. All rts. reserv.

13799006 PASCAL No.: 98-0513522

**Development of an internal coiled tubing connector utilizing permanent  
packer technology**

**SPE/ICoTA coiled tubing roundtable : Houston TX, 15-16 April 1998**

CORONADO M P

Baker Oil Tools, Unknown

Society of Petroleum Engineers, Richardson TX, United States.;

International Coiled Tubing Association, Unknown.

**SPE/ICoTA coiled tubing roundtable (Houston TX USA) 1998-04-15**

1998 139-148

Language: English

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... itself. Early connectors were of the roll-on design, which simply  
deforms the CT into **recessed grooves** on the outside of the connector,

relying on an interference fit to secure the tool...

... These connector designs have proven to be sufficient for normal CT applications, but since they **seal** and anchor on the outside surface of the tubing they are frequently the largest diameter...

... that can be used. This paper will describe a new connector design which anchors and **seals** on the inside wall of the CT, thus allowing the connector to be the same...

... capabilities (hydraulic horsepower, CT strength, etc.). The internal connector utilizes permanent packer technology in the **seal** and slip design, providing high performance. A second generation connector will also be described which...

**22/3,K/3 (Item 1 from file: 248)**

DIALOG(R)File 248:PIRA

(c) 2003 Pira International. All rts. reserv.

00156964 Pira Acc. Num.: 7432979 Pira Abstract Numbers: 03-87-01308

**Title: MOTAQUIP'S SMALLER RANGE IN STREAMLINE BOTTLES**

Authors: Anon

Source: Packag. Week Vol. 2, no. 36, 4 Feb. 1987, p. 7

Publication Year: 1987

Document Type: Journal Article

Language: English

...Abstract: screen printed with strong bands of distinguishing colour. Bottles feature a 38mm tamper-evident screw **closure** and the 1 litre bottle has **recessed grooves** . (Short article)

...Descriptors: **CLOSURE** ;

28/6/1 (Item 1 from file: 34)  
02034700 Genuine Article#: JV888 Number of References: 20  
Title: ANALYSIS OF HYDROSTATIC JOURNAL BEARINGS WITH END SEALS (Abstract Available)

28/6/2 (Item 2 from file: 96)  
00263535 FLUIDEX NO: 0310626 SUBFILE: R  
Analysis of hydrostatic journal bearings with end seals  
Trans. ASME-J. Tribology 114(4) pp 802-811., 1992

28/6/3 (Item 3 from file: 51)  
00327768 86-11-v0068 SUBFILE: FSTA  
(Take-away packaging.)  
Tragepackung.  
1986

28/6/4 (Item 4 from file: 96)  
00094374 FLUIDEX NO: 0101053 SUBFILE: FS  
Leak repair clamp.  
U.K. Pat. 2 004 019 A, 1979, 9p., 1979

28/6/5 (Item 5 from file: 53)  
00915099 FOODLINE ACCESSION NUMBER: 588763  
A leak proof, resealable container and cap assembly.  
PATENT: EP 1220794 A1  
PATENT: WO 0115989 DATE:8.3.2001

28/6/6 (Item 6 from file: 53)  
00853881 FOODLINE ACCESSION NUMBER: 530223  
Crate for cartons.  
PATENT: US 6076697 B  
?t28/7,k/3,5  
>>>KWIC option is not available in file(s): 252

28/7,K/3 (Item 3 from file: 51)  
DIALOG(R)File 51:Food Sci.&Tech.Abs  
(c) 2003 FSTA IFIS Publishing. All rts. reserv.

00327768 86-11-v0068 SUBFILE: FSTA  
(Take-away packaging.)  
Tragepackung.  
Carstens, U.  
PATENT CO.: German Federal Republic Patent Application 1986  
PATENT NO.: DE 34 28 806 A1  
DOCUMENT TYPE: Patent  
LANGUAGE: German

A take-away packaging is described for use by the consumer to hold liquids and/or pasty products and/or solid foods which are to be consumed later. The packaging is a rectangular container with a handle. An erectable hollow insert, which can be removed from the packaging, sits on the base of the packaging. The insert has recesses to take cups or cans in its top part; strips which are integral with the packaging container hold the cups /cans in place. Both container and insert are made of board, plastics, etc. The insert may be 2-piece and if desired can be made leak -proof to contain soup or similar liquid foods. (RAB)

A take-away packaging is described for use by the consumer to hold liquids and/or pasty products and/or solid foods which are to be consumed later. The packaging is a rectangular container with a handle. An erectable hollow insert, which can be removed from the packaging, sits on the base of the packaging. The insert has recesses to take cups or cans in its top part; strips which are integral with the packaging container

hold the **cups** /cans in place. Both **container** and insert are made of board, plastics, etc. The insert may be 2-piece and if desired can be made **leak** -proof to contain soup or similar **liquid** foods.

...DESCRIPTORS: foods, packs take-away for, Patent; **Liquids** --...

... **liquid** foods, packs take-away for, Patent

28/7,K/5 (Item 5 from file: 53)

DIALOG(R)File 53:FOODLINE(R): Food Science & Technology

(c) 2003 LFRA. All rts. reserv.

00915099 FOODLINE ACCESSION NUMBER: 588763

A leak **proof, resealable** container and cap assembly.

Bucholtz M

PATENT ASSIGNEE: Capitol Specialty Plastics Inc

PATENT: EP 1220794 A1

PATENT: WO 0115989 DATE:8.3.2001

APPLICATION COUNTRY: US (DATE(S):31.8.1999)

DESIGNATED STATES:

SeepublishedpatentdocumentforDesignatedContractingStates.

NOTES: 8.3.2001

X-REFERENCE: BEVERAGE PACKAGING

LANGUAGE: English

DOCUMENT TYPE: Patent

FOODLINE UPDATE CODE: 20020806

ABSTRACT: A **container** that can be opened, sealed and resealed while still maintaining a **leakproof seal** is described. The **container** has a rim on its upper section and a **cap** with a circular base, a cylindrical tubular skirt with an inner wall having at least one **recess**, a thumb tab and a hinge connecting the **cap** to the **container**. In the closed position, the skirt of the **cap** overlies the **containers** and the rim of the **container** is situated within the **recess** of the inner wall of the **cap** skirt.

SECTION HEADING: PACKAGING

A leak **proof, resealable** container and cap assembly.

ABSTRACT: A **container** that can be opened, sealed and resealed while still maintaining a **leakproof seal** is described. The **container** has a rim on its upper section and a **cap** with a circular base, a cylindrical tubular skirt with an inner wall having at least one **recess**, a thumb tab and a hinge connecting the **cap** to the **container**. In the closed position, the skirt of the **cap** overlies the **containers** and the rim of the **container** is situated within the **recess** of the inner wall of the **cap** skirt.

DESCRIPTORS: **BEVERAGE CONTAINERS** ; ...

...CAPS; ...

... **CLOSURES** ; ...

...CONTAINERS; ...

... **LEAKPROOF SEALS** ; ...

...RECLOSABLE **CONTAINERS**

File 9:Business & Industry(R) Jul/1994-2003/Jan 29  
(c) 2003 Resp. DB Svcs.  
File 95:TEME-Technology & Management 1989-2003/Jan W2  
(c) 2003 FIZ TECHNIK  
File 141:Readers Guide 1983-2003/Dec  
(c) 2003 The HW Wilson Co  
File 481:DELPHEES Eur Bus 95-2003/Jan W4  
(c) 2003 ACFCI & Chambre CommInd Paris  
File 482:Newsweek 2000-2003/Jan 29  
(c) 2003 Newsweek, Inc.  
File 484:Periodical Abs Plustext 1986-2003/Jan W4  
(c) 2003 ProQuest  
File 635:Business Dateline(R) 1985-2003/Jan 30  
(c) 2003 ProQuest Info&Learning  
File 636:Gale Group Newsletter DB(TM) 1987-2003/Jan 29  
(c) 2003 The Gale Group  
File 646:Consumer Reports 1982-2003/Jan  
(c) 2003 Consumer Union  
File 20:Dialog Global Reporter 1997-2003/Jan 30  
(c) 2003 The Dialog Corp.

Set	Items	Description
S1	455363	LID OR LIDS OR CAP OR CAPS
S2	394433	CLOSURE? ? OR SEAL OR SEALS
S3	225592	CONTAINER? ? OR RECEPTACLE? ?
S4	1102420	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	6935	RECESSED
S6	1089504	CHANNEL? ? OR GROOVE OR GROOVES
S7	403728	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	36398	RECESS OR RECESSES
S9	188321	LEAK??? OR LEAKPROOF
S10	124	(S5 OR S8) (3N) S6:S7
S11	23	S1:S4(S)S10
S12	0	S9 AND S11
S13	17	S11/2003. OR S11/2002 OR S11/2001 OR S11/2000
S14	6	S11 NOT S13
S15	6	RD (unique items)
S16	8372	S1:S4(S)S9
S17	351	S16(S)S6:S8
S18	1030871	COFFEE OR TEA OR BEVERAGE OR DRINK???
S19	29	S17 AND S18
S20	43	S17 AND LIQUID? ?
S21	24	S17(S)LIQUID? ?
S22	47	S19 OR S21
S23	47	S22 NOT S11
S24	43	RD (unique items)
S25	24	S24/2003 OR S24/2002 OR S24/2001 OR S24/2000
S26	19	S24 NOT S25
S27	19	Sort S26/ALL/PD,D

15/8/1 (Item 1 from file: 9)  
DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.

01298258 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**International shipping system doubles as carryall for work-in-process**  
October 1995  
WORD COUNT: 478

COMPANY NAMES: AMSCO INTERNATIONAL INC; TUSCARORA INC  
INDUSTRY NAMES: Medical devices & diagnostics; Packaging; Paper packaging;  
Paper products  
PRODUCT NAMES: Hardwood veneer and plywood (243500); Corrugated and solid  
fiber boxes (265300); Plastics foam products (308600); Surgical and  
medical instruments NEC (384180)  
CONCEPT TERMS: All company; Orders  
GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

15/8/2 (Item 2 from file: 9)  
DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.

01280485 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Open approach to cross fertilisation**  
September 07, 1995  
WORD COUNT: 1108

COMPANY NAMES: ELOPAK INC; TETRA PAK  
INDUSTRY NAMES: Packaging; Plastic packaging  
PRODUCT NAMES: Bottles, plastics (308500)  
CONCEPT TERMS: All company; Corporate strategy  
GEOGRAPHIC NAMES: European Union (EUCX); Norway (NOR); Scandinavia  
(SCAX); United Kingdom (UNK); Western Europe (WEEX)

15/8/3 (Item 1 from file: 484)  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

01814046 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Rock-solid Regulator**  
Jan 1994

DESCRIPTORS: Boats  
PRODUCT/INDUSTRY NAMES: Regulator 23  
SPECIAL FEATURES: Photograph Table  
COMPANY INFORMATION:  
Regulator Marine Inc

15/8/4 (Item 1 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

02635655 Supplier Number: 45335762 (USE FORMAT 7 FOR FULLTEXT)  
**FRictional WELDING: PRODUCING A SEAL HAVING LITTLE OR NO GAS POROSITY**  
**(950440)**  
Feb 14, 1995  
Word Count: 144  
PUBLISHER NAME: Merton Allen Associates  
COMPANY NAMES: \*Westinghouse Savannah River Co.  
EVENT NAMES: \*370 (Patents & copyrights)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*3623000 (Electric Welding Equip)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business);  
ENG (Engineering and Manufacturing)  
NAICS CODES: 333992 (Welding and Soldering Equipment Manufacturing)

15/8/5 (Item 2 from file: 636)

DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

01412351 Supplier Number: 41837966 (USE FORMAT 7 FOR FULLTEXT)

**Miniaturized Oxygen Electrode and Miniaturized Biosensor and Production Process Thereof**

Feb, 1991

Word Count: 187

PUBLISHER NAME: Business Communications Company, Inc.

INDUSTRY NAMES: BUSN (Any type of business); CHEM (Chemicals, Plastics and Rubber)

**15/8/6 (Item 1 from file: 646)**

DIALOG(R)File 646:(c) 2003 Consumer Union. All rts. reserv.

00001192

**Large cooler chests (Must you spend \$60 to get one that really keeps things cold? Or will a cheap all-foam chest do the trick?)**

June, 1988

DESCRIPTORS: Cooler chests; Portable; Insulated; Refrigerators  
?t15/3,k/2,6

**15/3,K/2 (Item 2 from file: 9)**

DIALOG(R)File 9:Business & Industry(R)

(c) 2003 Resp. DB Svcs. All rts. reserv.

01280485 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Open approach to cross fertilisation**

**(Elopak is determined to exploit its technological base to develop new packaging concepts)**

Packaging Week, n 14, p 18

September 07, 1995

DOCUMENT TYPE: Journal ISSN: 0276-6117 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1108

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...litre version at 38g.

The first question most people ask is: "How is the perimeter **seal** reconciled with a stable standing design?" The answer is that it is tucked away in a **recessed channel** in the base.

Work to be done

Despite the initial successes with the Unifill concept...

**15/3,K/6 (Item 1 from file: 646)**

DIALOG(R)File 646:Consumer Reports

(c) 2003 Consumer Union. All rts. reserv.

00001192

**Large cooler chests (Must you spend \$60 to get one that really keeps things cold? Or will a cheap all-foam chest do the trick?)**

Consumer Reports: vol. 53, no. 6, pp. 387-389, June, 1988

... a cooler knows the perils of melting ice. You can put food in water-resistant **containers**, of course. Even so, you'll want to drain the water eventually. That's no...

... unsnaps. With most, you must tilt the cooler to drain it fully; a few have **recessed grooves** that **channel** the water to the drain.

Another convenience is a tray to keep things organized; most...

27/8/1 (Item 1 from file: 9)  
DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.

02513121 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Counting on containers**

June 16, 1999

WORD COUNT: 1682

COMPANY NAMES: PELABUHAN TANJUNG PELEPAS SDN BHD  
INDUSTRY NAMES: Marine Transportation  
PRODUCT NAMES: Marine cargo handling (449100)  
CONCEPT TERMS: All company; All market information; Capacity; Capital expenditures; Shipments  
GEOGRAPHIC NAMES: Malaysia (MAY); Pacific Rim (PARX); Southern & Eastern Asia (SSAX)

27/8/2 (Item 2 from file: 20)  
DIALOG(R)File 20:(c) 2003 The Dialog Corp. All rts. reserv.

06284751

**Considerations in process equipment design**

April 30, 1999

WORD COUNT: 1930

DESCRIPTORS: Research & Development; Company News; New Products & Services; Marketing; Prices; Science & Technology; General News; Facilities & Equipment  
COUNTRY NAMES/CODES: Netherlands (NL) ; India (IN)  
REGIONS: Europe; European Union; Western Europe; Asia; South Asia  
SIC CODES/DESCRIPTIONS: 1521 (Single-Family Housing Construction); 7372 (Prepackaged Software); 6552 (Subdividers & Developers Ex Cemeteries); 1522 (Residential Construction NEC); 3365 (Aluminum Foundries); 2873 (Nitrogenous Fertilizers); 3312 (Blast Furnaces & Steel Mills); 2851 (Paints & Allied Products); 4911 (Electric Services); 2875 (Fertilizers Mixing Only); 2911 (Petroleum Refining); 2800 (Chemicals & Allied Products)

27/8/3 (Item 3 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

04171223 Supplier Number: 54620642 (USE FORMAT 7 FOR FULLTEXT)

**Freightliner Offers Aisin Automatic Transmission Option.**

March, 1999

Word Count: 1227

PUBLISHER NAME: Primedia Intertec  
COMPANY NAMES: \*Aisin Seiki Company Ltd.; Freightliner  
GEOGRAPHIC NAMES: \*9JAPA (Japan)  
PRODUCT NAMES: \*3714000 (Motor Vehicle Parts)  
INDUSTRY NAMES: AUTO (Automotive); BUSN (Any type of business); TRAN (Transportation, Distribution and Purchasing)  
SIC CODES: 3714 (Motor vehicle parts and accessories)  
NAICS CODES: 3363 (Motor Vehicle Parts Manufacturing)

27/8/4 (Item 4 from file: 95)  
DIALOG(R)File 95:(c) 2003 FIZ TECHNIK. All rts. reserv.

01424973 19990901586

**Double gas seal with coplanar coaxial Rayleigh pad faces for pump sealing applications**

(Doppelgasdichtung mit komplanaren, koaxialen Rayleigh-Pufferdichtflaechen fuer Pumpendichtungen)

1999

DESCRIPTORS: GAS SEALS; BUFFERS; FLUIDS; PROCESS PUMPS; LEAKAGE;  
CONTAMINATION; CURVES--GEOMETRY; SLOTS; IMPROVEMENT; GAS PRESSURE; COMPUTER



MODELLING; FIELD TEST  
IDENTIFIERS: DOPPELGASDICHTUNG; RAYLEIGH PUFFERDICHTFLAECHE; GASPUFFER;  
GLEITKLOTZLAGER; Doppelgasdichtung; Rayleigh-Dichtflaeche; Optimierung

**27/8/5 (Item 5 from file: 141)**  
DIALOG(R)File 141:(c) 2003 The HW Wilson Co. All rts. reserv.

03814293 H.W. WILSON RECORD NUMBER: BRGA98064293 (USE FORMAT 7 FOR  
FULLTEXT)

**Spooling the stuff of life.**  
AUGMENTED TITLE: DNA extradition  
WORD COUNT: 1487

DESCRIPTORS:  
DNA; Molecular biology--Methodology  
Sept. '98 (19980900)

**27/8/6 (Item 6 from file: 484)**  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

03780151 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Cobalt-decorated stoneware**  
Aug 1998

DESCRIPTORS: Ceramics; Collectibles; History  
SPECIAL FEATURES: Photograph

**27/8/7 (Item 7 from file: 20)**  
DIALOG(R)File 20:(c) 2003 The Dialog Corp. All rts. reserv.

01791575  
**A COMMONPLACE MIRACLE**  
May 29, 1998  
WORD COUNT: 847

DESCRIPTORS: Nuclear Issues; Waste Management & Recycling  
COUNTRY NAMES/CODES: Russia (RU)  
REGIONS: Commonwealth of Independent States; Former USSR

**27/8/8 (Item 8 from file: 484)**  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

03513520 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Geochemistry and U-Pb and 40Ar-39Ar geochronology of the Man of War Gneiss,  
Lizard Complex, SW England: Pre-Hercynian arc-type crust with a  
Sudeten-Iberian connection**  
May 1997

DESCRIPTORS: Geology; Chemistry; Plate tectonics; Minerals  
GEOGRAPHIC NAMES: England  
SPECIAL FEATURES: References Table Photograph Graph Illustration

**27/8/9 (Item 9 from file: 484)**  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

03214786 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Psycho ceramics: Mending cracked pots**  
Apr 1997

DESCRIPTORS: Ceramics; Repair & maintenance; History; Historic artifacts;  
Historic preservation  
SPECIAL FEATURES: Photograph

27/8/10 (Item 10 from file: 9)  
DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.

02055054 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**WOUND CARE PRODUCTS - WOUND SEALING**

1997

WORD COUNT: 3234

INDUSTRY NAMES: Business services; Medical devices & diagnostics;  
Pharmaceutical

PRODUCT NAMES: Pharmaceutical preparations (283400); Cardiovascular  
agents (283427); Diagnostic substances (283500); Biological products  
except diagnostic substances (283600); Commercial physical and  
biological research (873100)

CONCEPT TERMS: All government; All market information; All product and  
service information; Healthcare regulations; Product development; Trends

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

27/8/11 (Item 11 from file: 484)  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

02973129 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Uranium contamination in the Great Miami aquifer at the Fernald  
Environmental Management Project, Fernald, Ohio**  
Sep 1996

DESCRIPTORS: Uranium; Contamination; Drinking water; Investigations

GEOGRAPHIC NAMES: Fernald Ohio

SPECIAL FEATURES: References Table Graph Map Illustration

27/8/12 (Item 12 from file: 9)  
DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.

01376028 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Berry accuses PRI of patent violation**

January 08, 1996

WORD COUNT: 616

COMPANY NAMES: BERRY PLASTICS CORP; BERRY STERLING CORP (BERRY PLASTICS  
CORP); BODDIE-NOELL ENTERPRISES; COCA-COLA CO (THE); MCDONALD'S CORP;  
NATIONAL FOOTBALL LEAGUE; PACKAGING RESOURCES INC (PECK-LYNN GROUP LTD);  
PESCOR PLASTICS INC; WARNER BROS INC (TIME WARNER ENTERTAINMENT COMPANY  
LP)

INDUSTRY NAMES: Home furnishings

PRODUCT NAMES: Plastics household foodware, except foam and cups (308945)

CONCEPT TERMS: All intellectual property; Patents

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

27/8/13 (Item 13 from file: 95)  
DIALOG(R)File 95:(c) 2003 FIZ TECHNIK. All rts. reserv.

01060519 M97016793554

**Development of a noncontacting seal for gas/liquid applications using wavy  
face technology**

(Entwicklung einer beruehrungsfreien Dichtung mit gewellter Oberflaeche  
fuer Gas/Fluessigkeit-Anwendungen)

1996

DESCRIPTORS: RIPPLE; SURFACE QUALITY; IMPERVIOUSNESS; LIQUIDS; GASES;  
TEMPERATURE; FUNCTIONAL TEST

IDENTIFIERS: WELLIGE OBERFLAECHE; beruehrungsfreie Dichtung; wellige  
Oberflaeche

27/8/14 (Item 14 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

02027997 Supplier Number: 43675329 (USE FORMAT 7 FOR FULLTEXT)  
**HOT OUT OF THE AUTOCLAVE ...**  
March, 1993  
Word Count: 1021  
PUBLISHER NAME: T/C Press  
INDUSTRY NAMES: BUSN (Any type of business); CHEM (Chemicals, Plastics  
and Rubber)

27/8/15 (Item 15 from file: 95)  
DIALOG(R)File 95:(c) 2003 FIZ TECHNIK. All rts. reserv.

00845783 M94124416554  
**Development of non-contacting, non-leaking spiral groove liquid face  
seals**  
(Entwicklung beruehrungsfreier dichter Stirndichtungen mit Spiralrillen)  
1993  
DESCRIPTORS: LEAKAGE; IMPERVIOUSNESS  
IDENTIFIERS: STIRNDICHTUNG; Spaltdichtung; Dichtigkeit

27/8/16 (Item 16 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

01811549 Supplier Number: 43060986 (USE FORMAT 7 FOR FULLTEXT)  
**WARNING LETTER SAYS MILLED CHAFF ADDED TO COFFEE**  
June 8, 1992  
Word Count: 3243  
PUBLISHER NAME: Food Chemical News, Inc.  
COMPANY NAMES: \*Maxwell House Div.  
EVENT NAMES: \*930... (Government regulation)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: 2095000 (Processed **Coffee**)  
INDUSTRY NAMES: BUSN (Any type of business); CHEM (Chemicals, Plastics  
and Rubber); FOOD (Food, Beverages and Nutrition)  
NAICS CODES: 31192 (**Coffee** and **Tea** Manufacturing)

27/8/17 (Item 17 from file: 484)  
DIALOG(R)File 484:(c) 2003 ProQuest. All rts. reserv.

01083750 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**UV Spectrum and Proposed Role of Diethylberyllium in a (7)Li-(7)Be Solar  
Neutrino Experiment**  
May 8, 1992  
DESCRIPTORS: Research; Physics; Molecules; Astrophysics  
SPECIAL FEATURES: Graph References

27/8/18 (Item 18 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

01665330 Supplier Number: 42639511 (USE FORMAT 7 FOR FULLTEXT)  
**In-Situ RF Heating Beneath An Industrial Buildings Foundation**  
Jan, 1992  
Word Count: 920  
PUBLISHER NAME: Business Communications Company, Inc.  
INDUSTRY NAMES: BUSN (Any type of business); ENV (Environment)

27/8/19 (Item 19 from file: 636)  
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

01422479 Supplier Number: 41867659 (USE FORMAT 7 FOR FULLTEXT)  
**AMTs TEST & MEASUREMENT ALERT: EVALUATE O-RING SEAL**  
Feb 15, 1991  
Word Count: 387  
PUBLISHER NAME: Technical Insights, Inc.  
INDUSTRY NAMES: BUSN (Any type of business); ENG (Engineering and  
Manufacturing)  
?t27/3,k/6,9,12-16

**27/3,K/6 (Item 6 from file: 484)**  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2003 ProQuest. All rts. reserv.

03780151 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Cobalt-decorated stoneware**  
Shaw, Robert  
Early American Homes (IEAL), v29 n4, p8-12, p.5  
Aug 1998  
ISSN: 1086-9948 JOURNAL CODE: IEAL  
DOCUMENT TYPE: Feature  
LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1792

**27/3,K/9 (Item 9 from file: 484)**  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2003 ProQuest. All rts. reserv.

03214786 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Psycho ceramics: Mending cracked pots**  
Robinson, Delia  
Ceramics Monthly (ICMO), v45 n4, p71-72, p.2  
Apr 1997  
ISSN: 0009-0328 JOURNAL CODE: ICMO  
DOCUMENT TYPE: Feature  
LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1670

TEXT:  
... cover has a highly functional mend. Cracked down the center, the  
two pieces of the **lid** were reunited with large metal staples. This  
technique, like the sinew lacings of an earlier age, was very commonly used  
but had its drawbacks. Rivets were disfiguring, and the **vessels leaked**  
and were unsanitary, though this was not such a problem with a **lid**. If  
the metal rusted, the pot was subject to further unsightly damage.  
Therefore, on pottery...

...a lacquer made from powdered gold and the sap of the *Rhus vernicifera*  
tree. Some **tea** -ceremony devotees feel that this kind of mend,  
highlighting the crack with gold rather than...

**27/3,K/12 (Item 12 from file: 9)**  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

01376028 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Berry accuses PRI of patent violation**  
**(Berry Sterling files second lawsuit over large-sized plastic drinking**  
**cup that fits standard car cup holder; suit against Packaging Resources)**  
Plastics News, v 7, n 45, p 1+  
January 08, 1996  
DOCUMENT TYPE: Journal ISSN: 1042-802X (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 616

(USE FORMAT 7 OR 9 FOR FULLTEXT)

(Berry Sterling files second lawsuit over large-sized plastic drinking cup that fits standard car cup holder; suit against Packaging Resources)

TEXT:

...NEWS STAFF

Berry Sterling Corp. has launched its second lawsuit over a large-sized plastic **drinking** cup that fits in a standard car cup holder.

Packaging Resources Inc. of Lake Forest...

...which dominates that market, according to Imbler, mainly hopes to take business away from paper **cups**, which he said do not make good carryout **vessels** for large-sized **drinks** because of their tendency to get soggy and **leak**.

"The paper cup market is absolutely enormous," about five times the size of the \$100 million market for plastic **drink** cups, he said. ...

27/3,K/13 (Item 13 from file: 95)

DIALOG(R) File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01060519 M97016793554

**Development of a noncontacting seal for gas/liquid applications using wavy face technology**

(Entwicklung einer beruehrungsfreien Dichtung mit gewellter Oberflaeche fuer Gas/Fluessigkeit-Anwendungen)

Young, LA; Key, WE; Grace, RL

BW/IP Internat., Temecula, USA

13th Internat. Pump Users Symp., Proc., Houston, USA, Mar 5-7, 19961996

Document type: Conference paper Language: English

Record type: Abstract

**ABSTRACT:**

A **seal** has been developed that incorporates a circumferential wave pattern with a sealing dam formed on...

...proprietary process. When run against a flat carbon face, laboratory tests show that the wavy **seal** operates in a non-contacting mode in a gas environment at pressures from zero to...

...not been tested yet. Typical face temperature rise is two to six degrees Fahrenheit despite **seal** size or pressure for speeds from 200 to 3600 rpm. Gas **leak** rates are one fourth to one half that reported from other noncontacting **seals** based on grooved face technology at the same operating conditions. Tested gas environments ranged from air and nitrogen to low pressure propan. Testing was done in **liquids** that included high pressure **liquid** propane, water, synthetic oil, and crude oil. On high pressure **liquid** application, the wavy face **seal** shows excellent containment of the product. Lab testing shows that the **seal** succesfully contains the sudden introduction of 300 psi **liquid** propane. The wavy feature is bidirectional and is less likely to clog than other types of liftoff **seal** design that employ some form of **grooves** in the face. Also, because of the smooth wavy shape, the **seal** can withstand contact without damage to the carbon face. In all test modes there is insignificant face wear. The wavy **seal** is employed as a safety backup to primary **seals** operating in flashing or nonflashing hydrocarbons. The wavy **seal** can also be employed as a primary **seal** in low pressure blowers and as a dual **seal** with nitrogen or air barrier fluid at a higher pressure than the process. This ensures zero **leakage** of the product to the environment.

27/3,K/14 (Item 14 from file: 636)

DIALOG(R) File 636:Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

02027997 Supplier Number: 43675329 (USE FORMAT 7 FOR FULLTEXT)

**HOT OUT OF THE AUTOCLAVE ...**

Composites & Adhesives Newsletter, v9, n2, pN/A  
March, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1021

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

...of rivets used in the wing were improperly installed; and bolts were responsible for fuel **leaks** that caused the C-17 to be grounded three times last year. McDonnell has now...

...The Strategic Defense Initiative's Brilliant Pebbles program is scheduled to use composite overwrapped pressure **vessels** (COPVs). But problems have been encountered in producing the **leak**-free aluminum lines required for containment of helium gas. Porous welds and cracks in the...

...PAN-based fiber has higher thermal conductivity). As if impact damage effects for composite pressure **vessels** were not enough to worry about, now DoD is concerned about bullet and fragment vulnerability...

...anniversary since its first launch in October 1982. (The second launch attempt failed when a **seal** in the nozzle was overheated because of insufficient insulation.) The two Kevlar/epoxy filament-wound...

...be replaced in an effort to reduce weight and cost. The use of a storable **liquid** propellant in the second stage is a strong possibility. Lockheed Missiles and Space Co. (Sunnyvale...

**27/3,K/15 (Item 15 from file: 95)**

DIALOG(R)File 95:TEME-Technology & Management  
(c) 2003 FIZ TECHNIK. All rts. reserv.

00845783 M94124416554

**Development of non-contacting, non-leaking spiral groove liquid face seals**

(Entwicklung beruehrungsfreier dichter Stirndichtungen mit Spiralrillen)

Lai, T

John Crane Inc., Morton Grove, USA

STLE/ASME 1993 Tribology Conf., The Soc. of Tribologists and Lubrication Engineers, Tech. Preprints, New Orleans, USA, Oct 16-19, 1993

Document type: Conference paper Language: English

Record type: Abstract

**Development of non-contacting, non-leaking spiral groove liquid face seals**

**ABSTRACT:**

A non-contacting and non-leaking **liquid face seal** operates with zero visible **leakage** at full face separation during running. It typically used some face pattern to eliminate fluid **leakage** and generate force to separate the faces. Because of the separation, the **seal** will not wear out and frictional power consumption is low. Several such **seals** had been developed in the author's laboratory based on spiral **groove** pumping principles. A test rig with variable **seal** closing force control was used to test a 57 mm diameter shaft size **seal** in water, both statically and dynamically with speeds up to 3600 rpm. The maximum dynamic sealing pressure achieved in these tests was 2.8 MPa. The **seal** face temperature rise was as low as 7 deg C. The **seal** design concepts were also successfully applied to a 38 mm diameter shaft size compressor gear box oil face **seal** running at 25000 rpm with a fixed balance diameter. The overall lab and field test data showed that non-contacting and non-leaking **seals** were feasible.

27/3,K/16 (Item 16 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01811549 Supplier Number: 43060986 (USE FORMAT 7 FOR FULLTEXT)

**WARNING LETTER SAYS MILLED CHAFF ADDED TO COFFEE**

Food Chemical News, v34, n15, pN/A

June 8, 1992

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 3243

(USE FORMAT 7 FOR FULLTEXT)

**WARNING LETTER SAYS MILLED CHAFF ADDED TO COFFEE**

TEXT:

...s Orlando District on May 19 sent a Warning Letter to General Mills' Maxwell House **Coffee** Company, White Plains, N.Y., saying that an investigation of its facility in Jacksonville, Fla., showed that "milled chaff has been added and mixed with the ground **coffee** so as to increase its bulk or weight and reduce its quality."

... of its bitter taste and light color, detracts from the flavor and appearance of roasted **coffee** to which it is added," FDA said.

The Atlanta District on May 11 sent a...garbage can, without first washing hands, consumption of beverages while preparing food, and storage of **drinking** cups on work surfaces;

"Storage of fly swatter among clean pots and pans, hundreds of...

...insufficient temperatures for water for dish machine, insufficient water pressure at the galley handwash sink, **leaking** pipe under the handwash sink leading to pooling of water on the floor; (and) storage of white powders in numerous unlabeled **containers**, storage of Comet next to clean pots and pans, and storage of Drano at...

...classified as "Not Approved," noting that "your food service rating score was '44,' and your **vessel** sanitation score was '69'," adding that "a certificate was not issued."

Mayonnaise from Japan Labeling...

PRODUCT NAMES: 2095000 (Processed **Coffee** )

NAICS CODES: 31192 ( **Coffee** and **Tea** Manufacturing)

File 80:TGG Aerospace/Def.Mkts(R) 1986-2003/Jan 29  
(c) 2003 The Gale Group  
File 18:Gale Group F&S Index(R) 1988-2003/Jan 29  
(c) 2003 The Gale Group  
File 149:TGG Health&Wellness DB(SM) 1976-2003/Jan W2  
(c) 2003 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2003/Jan 29  
(c) 2003 The Gale group  
File 570:Gale Group MARS(R) 1984-2003/Jan 29  
(c) 2003 The Gale Group  
File 621:Gale Group New.Prod.Annou.(R) 1985-2003/Jan 28  
(c) 2003 The Gale Group  
File 649:Gale Group Newswire ASAP(TM) 2003/Jan 22  
(c) 2003 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2003/Jan 29  
(c) 2003 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2003/Jan 30  
(c)2003 The Gale Group

Set	Items	Description
S1	427673	LID OR LIDS OR CAP OR CAPS
S2	355408	CLOSURE? ? OR SEAL OR SEALS
S3	410150	CONTAINER? ? OR RECEPTACLE? ?
S4	715683	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	12946	RECESSED
S6	1501464	CHANNEL? ? OR GROOVE OR GROOVES
S7	347832	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	22295	RECESS OR RECESSES
S9	145479	LEAK??? OR LEAKPROOF
S10	2086	PC=(307471 OR 34661)
S11	73572	PC=(265 OR 3221 OR 3074)
S12	1777687	S1:S4
S13	49	(S5 OR S8) (5N) S7
S14	10	S12 AND S13
S15	9	RD (unique items)
S16	2	S15/2003 OR S15/2002 OR S15/2001 OR S15/2000
S17	7	S15 NOT S16
S18	7	Sort S17/ALL/PD,D
S19	106246	S1:S4/DE OR S10:S11
S20	2500	S19 AND S5:S8
S21	3	S13 AND S19
S22	0	S21 NOT S14



18/8/1 (Item 1 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

09353712 SUPPLIER NUMBER: 19059107 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Fast, faster, fastest: CD-ROM's new 8X, 10X, 12X drives.(includes related articles) (Hardware Review) (Evaluation)**  
Feb, 1997  
WORD COUNT: 9605 LINE COUNT: 00807

SPECIAL FEATURES: illustration; photograph; table  
INDUSTRY CODES/NAMES: LIB Library and Information Science; BUSN Any type of business  
DESCRIPTORS: CD-ROM--Equipment and supplies; Optical storage devices--Evaluation; Computer storage device industry--Product development  
PRODUCT/INDUSTRY NAMES: 3573217 (Optical Disk Drives)  
SIC CODES: 3572 Computer storage devices  
TRADE NAMES: Wearnes Technology CDD-1020 (CD-ROM drive)--Evaluation; Toshiba XM-5702B ATAPI (CD-ROM drive)--Evaluation; TEAC CD-58E 8X CD-ROM Drive Kit (CD-ROM drive)--Evaluation; Sony CSD-880E (CD-ROM drive)--Evaluation; Plextor 8Plex (CD-ROM drive)--Evaluation; Plextor 12Plex (CD-ROM drive)--Evaluation; Pioneer New Media Technologies CD-433 (CD-ROM drive)--Evaluation; Pioneer New Media Technologies DR-444 (CD-ROM drive)--Evaluation; Philips PCA80SC (CD-ROM drive)--Evaluation; Ocean Information Systems Octek CDR 810 (CD-ROM drive)--Evaluation; Mitsumi CRMC-FX810T (CD-ROM drive)--Evaluation; Mitsumi CRMC-FX120T (CD-ROM drive)--Evaluation; Micro Solutions Computer Products Backpack 166700 (CD-ROM drive)--Evaluation; LG Electronics USA Goldstar GCR-580 (CD-ROM drive)--Evaluation; Acer America CD612A (CD-ROM drive)--Evaluation  
FILE SEGMENT: TI File 148

18/8/2 (Item 2 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

08263974 SUPPLIER NUMBER: 17585768 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Burning bright. (new cooktop concepts)**  
Oct, 1995  
WORD COUNT: 595 LINE COUNT: 00051

SPECIAL FEATURES: illustration; photograph  
INDUSTRY CODES/NAMES: ELEC Electronics; ENG Engineering and Manufacturing; HOME Home Furnishings  
DESCRIPTORS: Gas-burners--Innovations  
PRODUCT/INDUSTRY NAMES: 3631211 (Gas Ranges, Built-In)  
SIC CODES: 3631 Household cooking equipment  
FILE SEGMENT: TI File 148

18/8/3 (Item 3 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

07616076 SUPPLIER NUMBER: 16538984 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Drive systems and joint performance. (Reference Guide: Fasteners)**  
Dec, 1994  
WORD COUNT: 1780 LINE COUNT: 00144

SPECIAL FEATURES: illustration; table  
INDUSTRY CODES/NAMES: HOME Home Furnishings; ELEC Electronics; ENG Engineering and Manufacturing  
DESCRIPTORS: Fasteners--Design and construction; Joints (Engineering)--Design and construction; Fasteners industry (Hardware)--Innovations; Home appliances industry--Product development  
PRODUCT/INDUSTRY NAMES: 3452000 (Metal Fasteners); 3630000 (Household Appliances)  
SIC CODES: 3452 Bolts, nuts, rivets, and washers; 3630 Household Appliances  
FILE SEGMENT: TI File 148

18/8/4 (Item 4 from file: 148)

DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

07302039 SUPPLIER NUMBER: 16097212 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Revolution in refrigerators; all-plastic hollow door.**

June, 1994

WORD COUNT: 1848 LINE COUNT: 00150

SPECIAL FEATURES: illustration; chart

INDUSTRY CODES/NAMES: HOME Home Furnishings; ELEC Electronics; ENG  
Engineering and Manufacturing

DESCRIPTORS: Refrigerators--Manufacture; Home appliances--Manufacture

PRODUCT/INDUSTRY NAMES: 3632100 (Refrigerators); 3630000 (Household  
Appliances)

SIC CODES: 3632 Household refrigerators and freezers; 3630 Household  
Appliances

FILE SEGMENT: TI File 148

18/8/5 (Item 5 from file: 148)

DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

07194251 SUPPLIER NUMBER: 15133082 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Rotary degassing units improve quality, lower costs. (the degassing process  
in aluminum castings manufacture)**

Feb, 1994

WORD COUNT: 2153 LINE COUNT: 00163

SPECIAL FEATURES: illustration; photograph; chart

INDUSTRY CODES/NAMES: METL Metals, Metalworking and Machinery

DESCRIPTORS: Degassing of metals--Equipment and supplies; Steel--

Degassing; Aluminum castings--Manufacture; Metal castings industry--  
Equipment and supplies

PRODUCT/INDUSTRY NAMES: 3361000 (Aluminum Castings); 3559290 (Foundry  
Equipment NEC)

SIC CODES: 3325 Steel foundries, not elsewhere classified; 3365  
Aluminum foundries; 3559 Special industry machinery, not elsewhere  
classified

FILE SEGMENT: TI File 148

18/8/6 (Item 6 from file: 148)

DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

06408716 SUPPLIER NUMBER: 13475668 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The medium is the monitor. (Mac the Knife) (Column)**

March 1, 1993

WORD COUNT: 698 LINE COUNT: 00052

INDUSTRY CODES/NAMES: CMPT Computers and Office Automation

FILE SEGMENT: CD File 275

18/8/7 (Item 7 from file: 16)

DIALOG(R) File 16:(c) 2003 The Gale Group. All rts. reserv.

01650645 Supplier Number: 42044305 (USE FORMAT 7 FOR FULLTEXT)

**HDPE bottle cradles glass vial of activator**

May, 1991

Word Count: 486

PUBLISHER NAME: Independent Publishing Company

COMPANY NAMES: \*Owens-Brockway; Roux Laboratories

EVENT NAMES: \*460 (Use of materials & supplies); 330 (Product  
information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: 2844353 (Home Hair Colorings); 3074710 (Plastic  
Closures )  
INDUSTRY NAMES: BUSN (Any type of business); DRUG (Pharmaceuticals and  
Cosmetics); FOOD (Food, Beverages and Nutrition)  
NAICS CODES: 32562 (Toilet Preparation Manufacturing); 326199 (All Other  
Plastics Product Manufacturing)  
SPECIAL FEATURES: COMPANY

21/6/1 (Item 1 from file: 570)  
02065810 Supplier Number: 72705829 (USE FORMAT 7 FOR FULLTEXT)  
**Marketing Milk: It's all in the Package.**  
Feb, 2001  
Word Count: 3848

21/6/2 (Item 1 from file: 16)  
08510211 Supplier Number: 72705829 (USE FORMAT 7 FOR FULLTEXT)  
**Marketing Milk: It's all in the Package.**  
Feb, 2001  
Word Count: 3848

21/6/3 (Item 2 from file: 16)  
01650645 Supplier Number: 42044305 (USE FORMAT 7 FOR FULLTEXT)  
**HDPE bottle cradles glass vial of activator**  
May, 1991  
Word Count: 486

File 609:Bridge World Markets 2000-2001/Oct 01  
    (c) 2001 Bridge  
File 610:Business Wire 1999-2003/Jan 30  
    (c) 2003 Business Wire.  
File 613:PR Newswire 1999-2003/Jan 30  
    (c) 2003 PR Newswire Association Inc  
File 810:Business Wire 1986-1999/Feb 28  
    (c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
    (c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	103023	LID OR LIDS OR CAP OR CAPS
S2	59401	CLOSURE? ? OR SEAL OR SEALS
S3	43528	CONTAINER? ? OR RECEPTACLE? ?
S4	190587	CUP OR CUPS OR MUG OR MUGS OR HOLDER? ?
S5	785	RECESSED
S6	409413	CHANNEL? ? OR GROOVE OR GROOVES
S7	62601	DEPRESSION? ? OR INDENTATION? ? OR CLEFT? ? OR VESSEL? ?
S8	3952	RECESS OR RECESSES
S9	17238	LEAK??? OR LEAKPROOF
S10	17	S1:S4 AND (S5 OR S8) (S) S6:S7
S11	0	S9 AND S10
S12	16	S10/2003 OR S10/2002 OR S10/2001 OR S10/2000
S13	1	S10 NOT S12

13/3,K/1 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00059932 19990614165B1105 (USE FORMAT 7 FOR FULLTEXT)  
**GovTechNet '99 Exhibitor Profiles, Part 1 of 4; Conference and Exposition  
to be Held this Week in Washington, D.C.**  
Business Wire  
Monday, June 14, 1999 20:07 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 2,351

...a cable isolator or design  
of a complete mounting system including attachment plates.

Company: AGM **Container** Controls, Inc.  
Booth: 232  
Contact: Roger Stewart  
Phone: 800-995-5590  
E-mail: [stewart@agmcontainer...](mailto:stewart@agmcontainer...)

...vans and shelters. The first is Tie Down  
Shelving, vinyl-padded lightweight aluminum shelving with **recessed  
channels** for over-center tensioning straps with quarter-turn end  
fittings. Any size or shape equipment...3922 x2  
E-mail: [rshutch@cdrominc.com](mailto:rshutch@cdrominc.com)  
URL: [www.cdrominc.com](http://www.cdrominc.com)

CD ROM, Inc., a **holder** of several key patented technologies in  
the optical disc industry, is the oldest privately-held...